EP1800*+0T99650

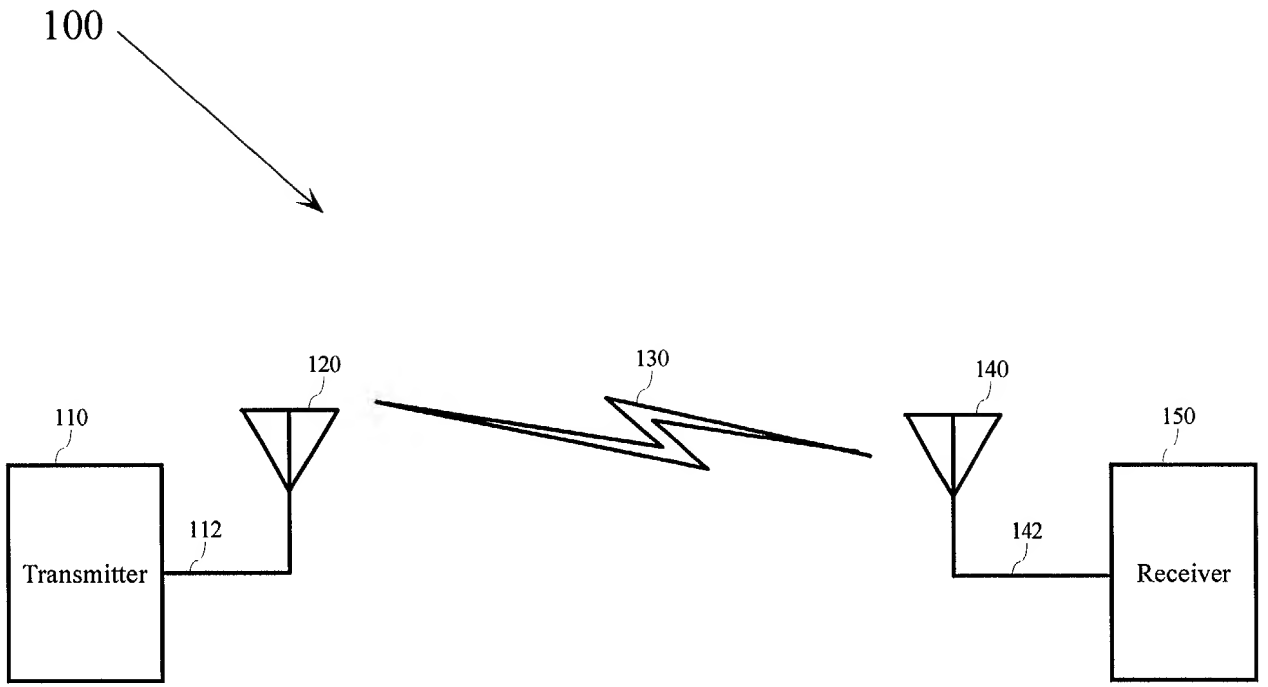


Fig. 1

TOTBOT "hOT99660

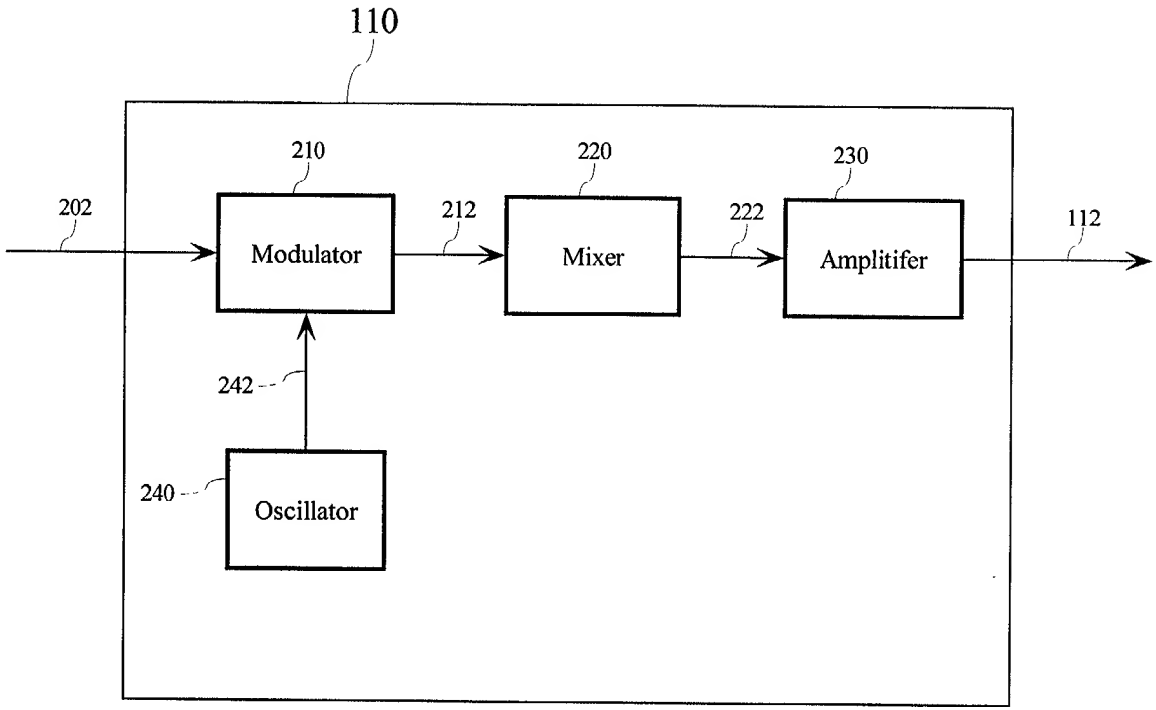


Fig. 2

TOTOOT"tOT9660

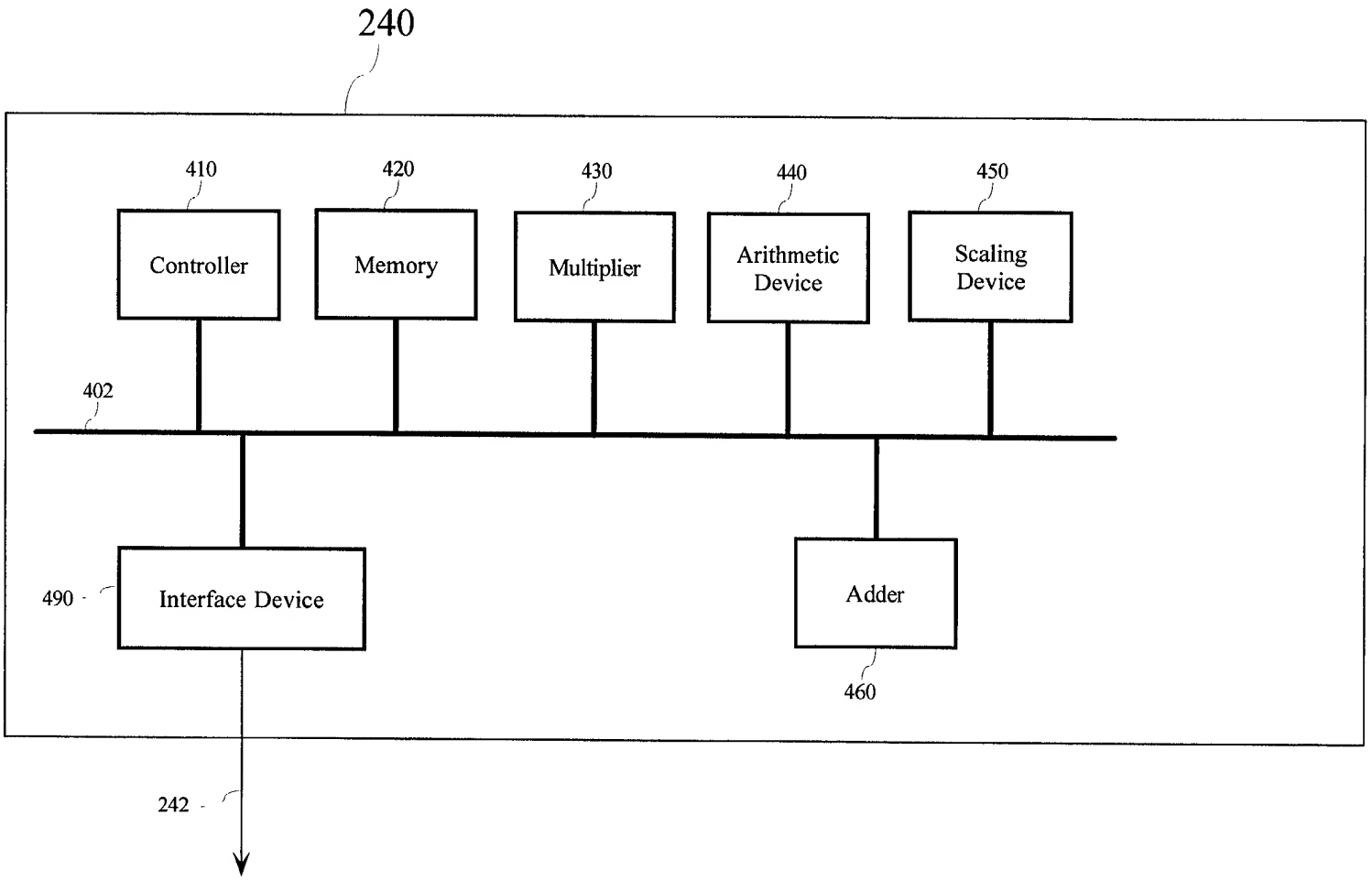


Fig. 3

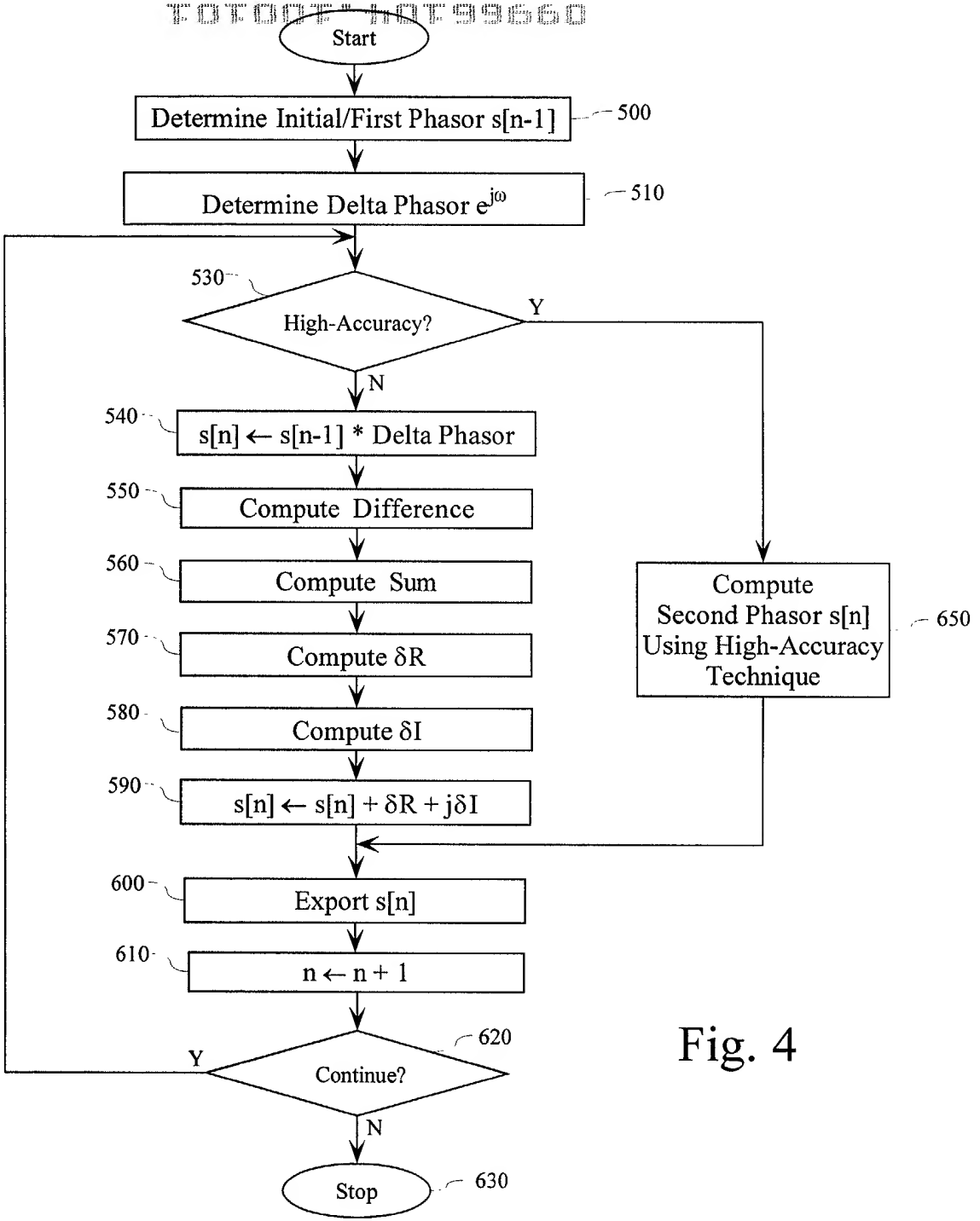
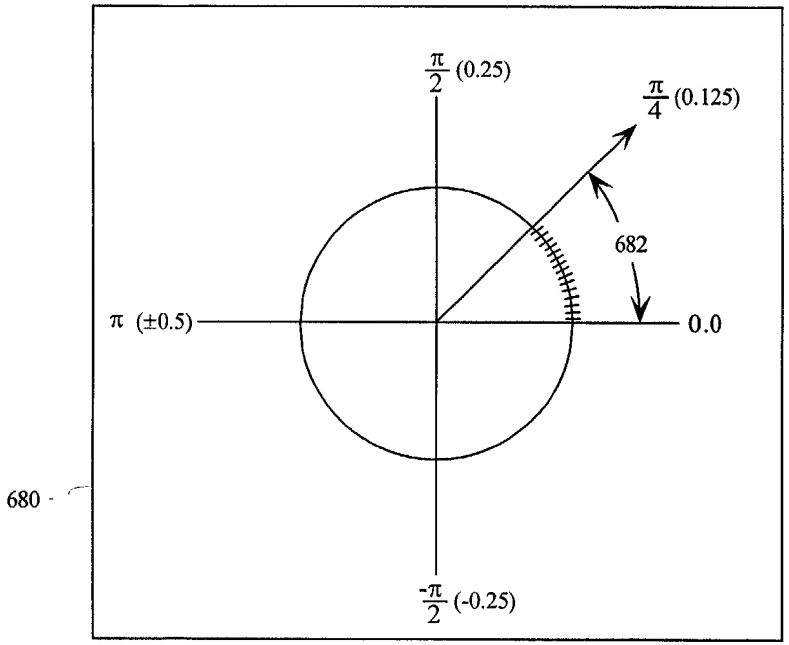

Start
Determine Initial/First Phasor s[n-1]
500
Determine Delta Phasor $e^{j\omega}$
510
530
High-Accuracy?
Y
N
540
s[n] ← s[n-1] * Delta Phasor
550
Compute Difference
560
Compute Sum
570
Compute δR
580
Compute δI
590
s[n] ← s[n] + δR + jδI
Compute Second Phasor s[n] Using High-Accuracy Technique
650
600
Export s[n]
610
n ← n + 1
620
Y
Continue?
N
Stop
630

Fig. 4

EP 1 780 907 A1



420

Angle	Cosine	Sine
-2/128	0.995185	-0.146730
-1/128	0.998795	-0.049068
0	1.0	0.0
1/128	0.998795	0.049068
2/128	0.995185	0.098017
3/128	0.989177	0.146730
...	...	...
...	...	...
...	...	...
14/128	0.707107	0.634393
15/128	0.773011	0.671559
1/8	0.707107	0.707107
17/128	0.671559	0.740950
18/128	0.634393	0.773011

690

Fig. 5

TOTOOT "WO199660

Angle	Cosine	
X_n	Y_n	
-2/128	0.995185	
-1/128	0.998795	← δ_0
0	1.0	← δ_1
1/128	0.998795	← δ_2
2/128	0.995185	← δ_3
3/128	0.989177	
...	...	
...	...	
...	...	
14/128	0.773011	
15/128	0.740951	
1/8	0.707107	
17/128	0.671559	
18/128	0.634393	

692

Fig. 6

Angle	Sine	
X_n	Y_n	
-2/128	-0.146730	
-1/128	-0.049068	← δ'_0
0	0.0	← δ'_1
1/128	0.049068	← δ'_2
2/128	0.098017	← δ'_3
3/128	0.146730	
...	...	
...	...	
...	...	
14/128	0.634393	
15/128	0.671559	
1/8	0.707107	
17/128	0.740951	
18/128	0.773011	

694

Fig. 7

TOTOOT"hOT9960

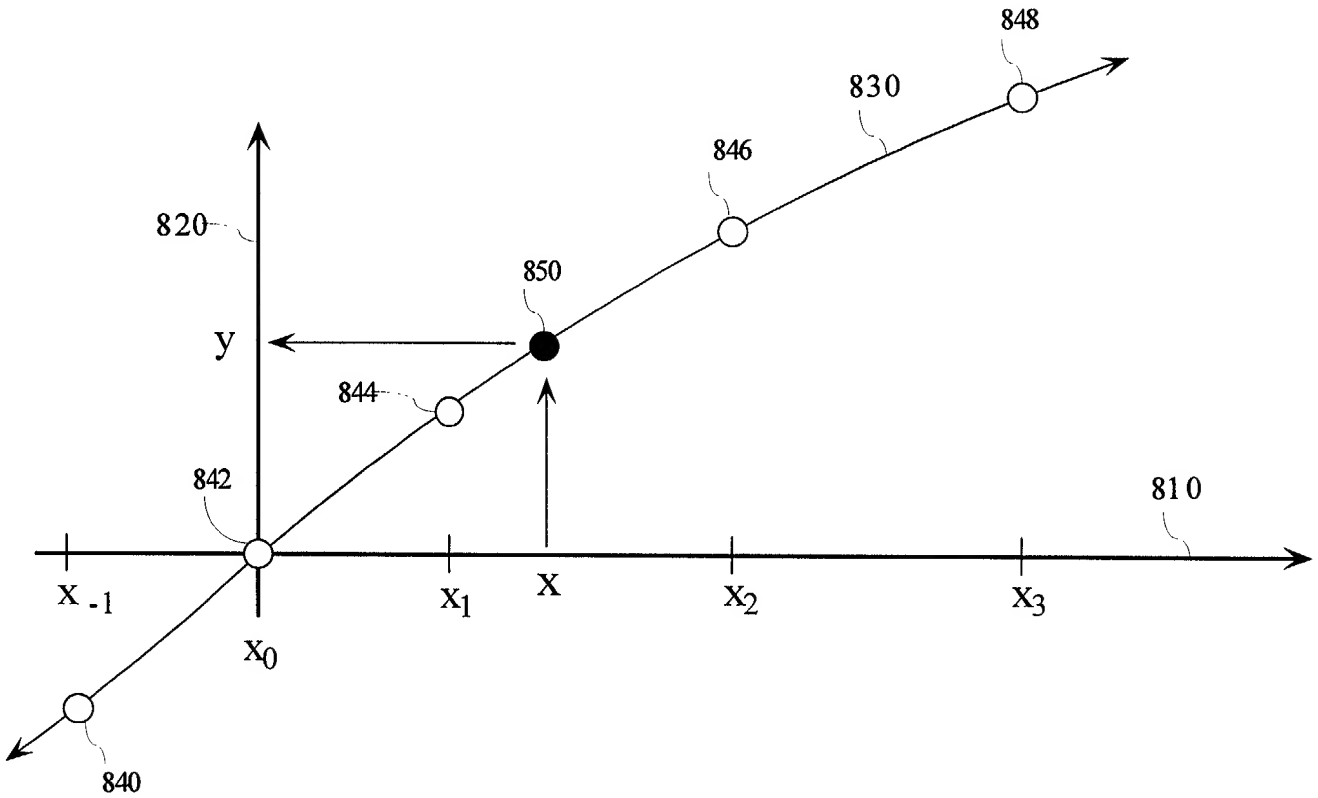


Fig. 8

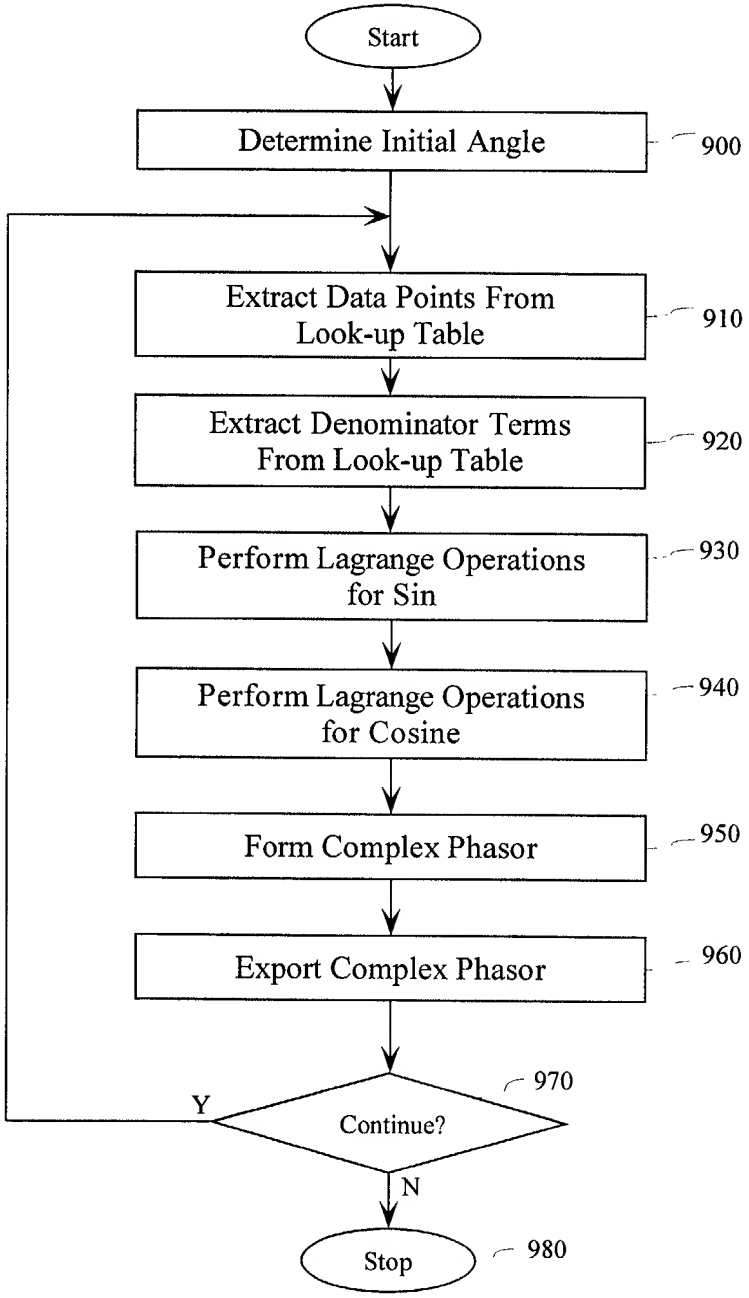

Start
Determine Initial Angle
900
Extract Data Points From Look-up Table
910
Extract Denominator Terms From Look-up Table
920
Perform Lagrange Operations for Sin
930
Perform Lagrange Operations for Cosine
940
Form Complex Phasor
950
Export Complex Phasor
960
Continue?
970
Y
N
Stop
980

Fig. 9